

NOTES

GALVANIZING: Galvanize all bolts, nuts, washers and pipe sleeves in accordance with AASHTO M 232.

REFLECTORS: Place a white reflector on top of the top tube rail at equal spacing (not to exceed 30 foot spacing) between ends of rail. See Dtl. Dwg. No. 606-60 for reflector detail. Mount the reflector on the tube rail with an approved adhesive. Include the cost of reflector in the unit price bid for Bridge Rail ~ W830.

PAYMENT: Payment for Bridge Rail ~ W830 per linear foot Includes compensation for the cost of Class SD concrete in the curb and for all resources necessary to complete the work. See the General Layout for the number of linear feet for payment of Bridge Rail ~ W830. Use rail post plates and base plates conforming to AASHTO M 270 Grade 36T3. Use AASHTO M 270 Grade 36 for all other plates.

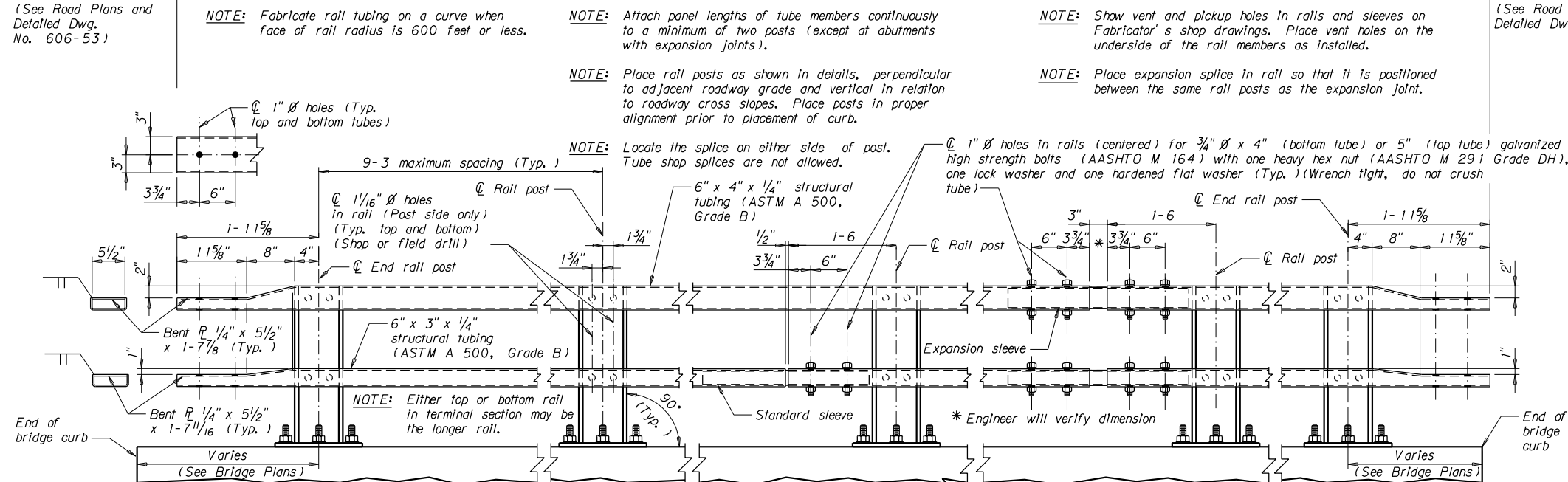
ERECTION: Place rail posts as shown in details, perpendicular to adjacent roadway grade and vertical in relation to roadway cross slopes. Place posts in proper alignment prior to placement of curb.

PAINING: Paint all posts, structural tubing and plates (except as noted) in accordance with the Standard Specifications. Galvanizing the posts, structural tubing and plates in accordance with AASHTO M 111 will be allowed.

EXCEPTIONS: Use details shown on this drawing only as they apply to the project. Anchorage details may vary. Refer to other drawings for variations in these details.

FABRICATION: For the purposes of fabrication, this rail system is considered an ancillary item. The requirements of subsection 1.3.6 of AASHTO/AWS D1.5 apply.

RAIL WEIGHT: For informational purposes only, the rail weight is approximately 123.0 lb/ft for the curb and 50.0 lb/ft for the rail.



ELEVATION AT BOX BEAM GUARDRAIL CONNECTION

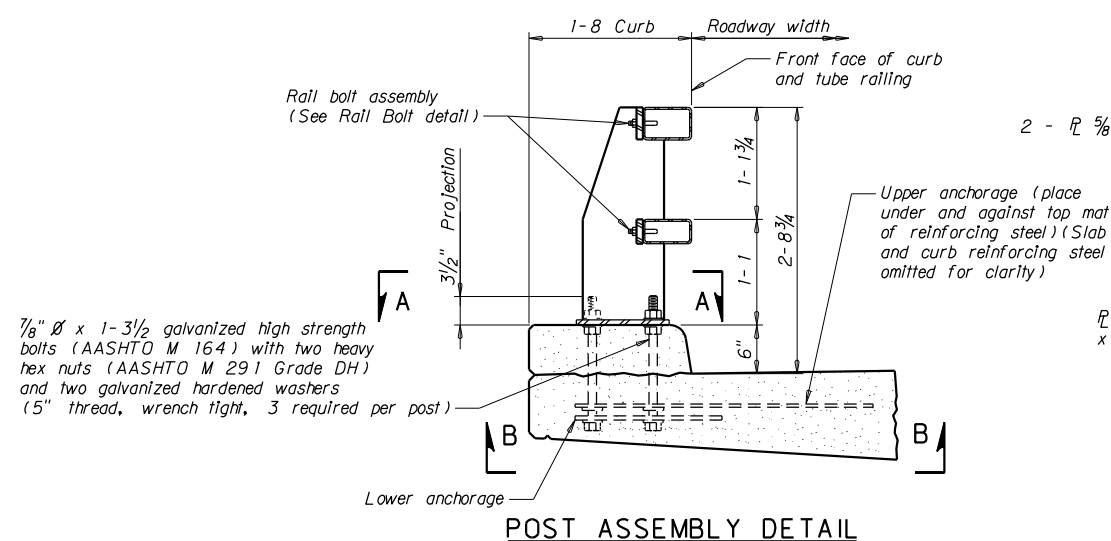
NOTE: Do not provide a tube splice in first panel unless it crosses an expansion joint.

STANDARD SPLICE

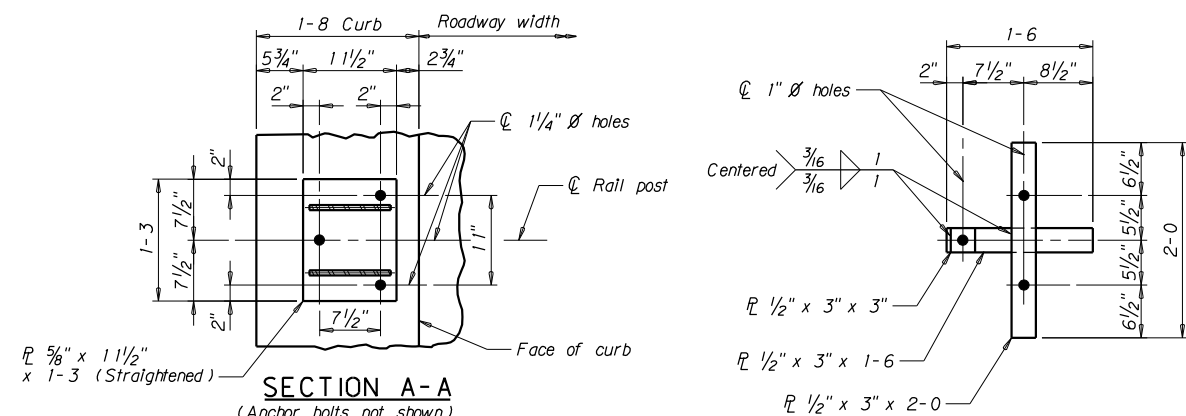
(Top or bottom rail)

EXPANSION SPLICE

(Top and bottom rail)

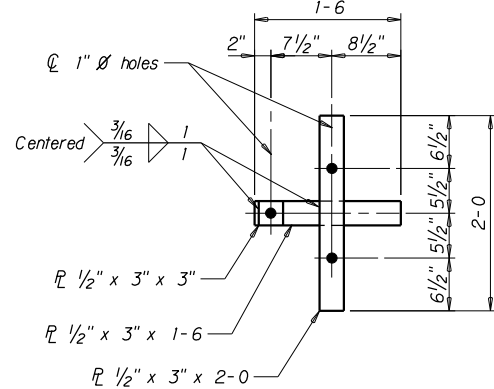


POST ASSEMBLY DETAIL



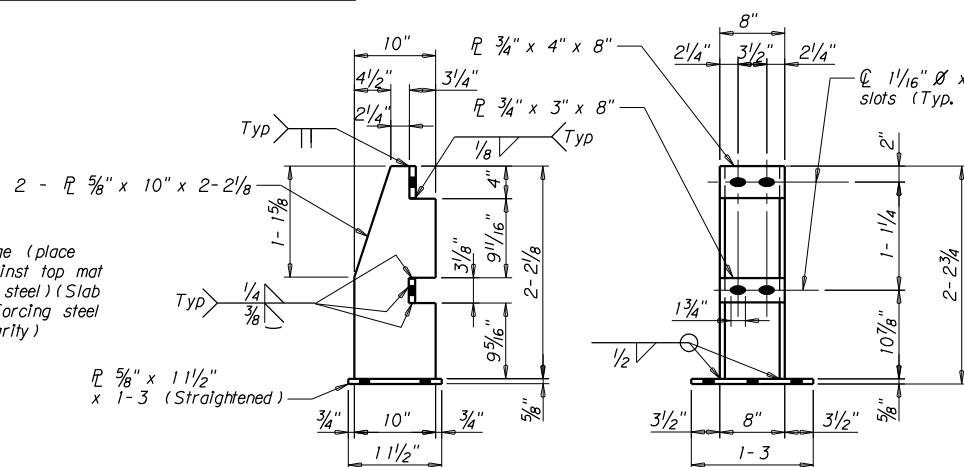
SECTION A-A
Anchor bolts not shown

(Anchor bolts not shown)

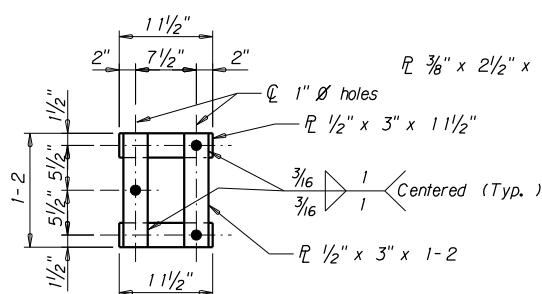


VIEW B-B

(Showing lower anchorage)
(Do not galvanize)
(Anchor bolts not shown)

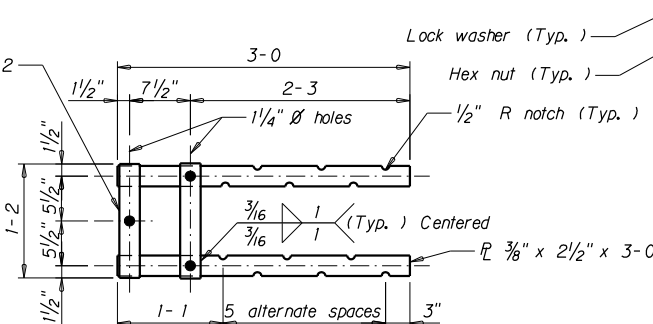


POST DETAILS



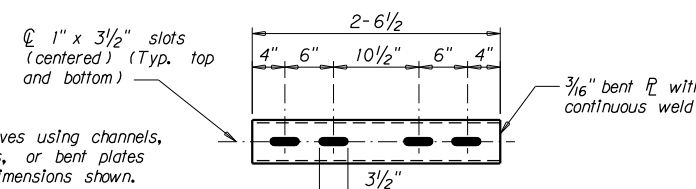
VIEW B-B (U-TYPE BENT)

(Do not galvanize)
(Anchor bolts not shown)

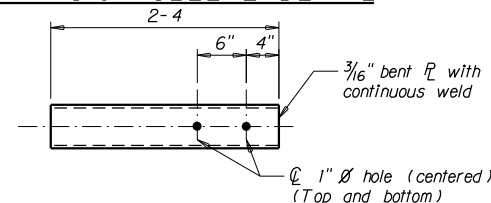


VIEW B-B

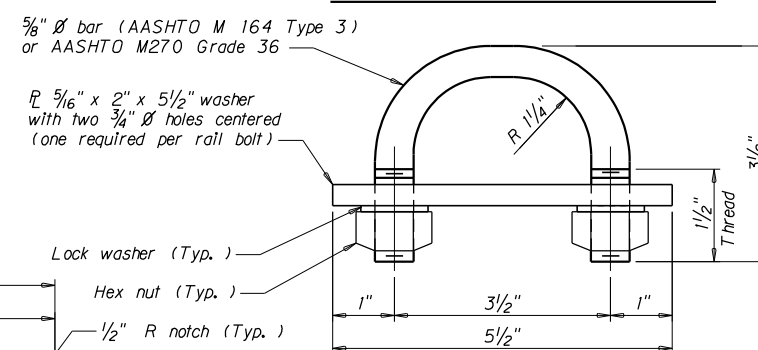
(Showing upper anchorage)
(Do not galvanize)
(Anchor bolts not shown)



EXPANSION SLEEVE DETAIL



STANDARD SLEEVE DETAIL



RAIL BOLT DETAIL



STANDARD BRIDGE RAIL
TYPE W830

No Scale

DRAWN	8-2-07	L. M. S
CHECKED	3-20-08	D. J. R
APPROVED	3-26-08	D. F. J
REVISED	2-1-11	D. F. J
REVISED		
REVISED		
REVISED		
REVISED		

STD REF W830211. STD

DRAWING NO. SBR-W830